

### REMARKS

Claims 18-25 and 27-33 are pending. Claims 18 and 27 are amended herein. Claims 17 and 26 are cancelled herein. Claims 1-17, 26 and 34-35 now stand as cancelled. Applicant respectfully requests reconsideration in view of the above amendments to the present application, and the arguments set forth below. No new matter is added herein.

### ALLOWABLE SUBJECT MATTER

Applicant respectfully thanks the Examiner for pointing out the allowable subject matter of Claims 18-23 and 27-33. Claims 18 and 27 are amended herein to read in independent form, in response to the Examiner's indications of allowability. Claims 17 and 26 are cancelled herein. Thus, Applicant respectfully asserts that the objection to Claims 18-23 and 27-33, respectively dependent upon cancelled Claims 17 and 26, is moot. Applicant further respectfully asserts therefore that Claims 18-23 and 27-33 are allowable. Applicant respectfully requests the Examiner's review, approval, withdrawal of objection thereto and allowance of Claims 18-23 and 27-33.

### CLAIM REJECTIONS AND OBJECTIONS

#### REJECTIONS UNDER 35 USC 102

Claims 17 and 26 are rejected under 35 USC 102(b) over US Patent No. 5,699,021 to Hill (hereinafter Hill). Claims 17 and 26 are cancelled herein. Thus Applicant respectfully asserts that their rejection is moot.

#### REJECTIONS UNDER 35 USC 103

Claims 24 and 25 are rejected under 35 USC 103(a) over Hill. Applicant has reviewed the reference cited and respectfully asserts that it does not teach or

suggest embodiments of the present invention recited in Claims 24 and 25 for the following rationale.

As Applicant understands the reference, Hill teaches a balanced oscillator and transmitter circuit for radiating radio frequency (RF) signals with enhanced power. Hill, c.1, ll. 10-13. The teaching of Hill differs from the embodiments of the present invention recited in Claim 18 and its dependent claims, including Claims 24 and 25.

As amended herein, independent Claim 18 reads as follows:

    An oscillator system for generating timing signals, comprising:

        a first oscillator containing gain and non-linear elements; said first

oscillator comprising:

            a first center-tapped transmission line;

            a second center-tapped transmission line, operated out of phase with the first transmission line;

            a first oscillating circuit connected to one end of the first transmission line and one end of the second transmission line; and

            a second oscillating circuit connected to the opposite end of the first transmission line and the opposite end of the second transmission line;

        a second oscillator containing gain and non-linear elements;

        a first coupler for coupling a first signal from the first oscillator accessed at a point between the output of the gain element of the first oscillator and the input of the non-linear element of the first oscillator, to said second oscillator at a point between the output of the gain element of the second oscillator and the input of the non-linear element of the second oscillator; and

        a second coupler for coupling a second signal from the second oscillator accessed at a point between the output of the gain element of the second oscillator and the input of the non-linear element of the second oscillator, to said first oscillator at a point between the output of the gain element of the first oscillator and the input of the non-linear element of the first oscillator.

The oscillator system recited in Claim 18, and its dependent claims including Claims 24 and 25, have first and second oscillators with gain and non-linear elements, where the first oscillator has first and second center-tapped transmission lines, which are operated out of phase with respect to each other. The claimed oscillator system achieves functionality related to these transmission lines, their relative phasing, and their connection to oscillating circuits.

Hill does not teach or suggest an oscillator system for generating timing signals having first and second oscillators with gain and non-linear elements, where the first oscillator has first and second center-tapped transmission lines, which are operated out of phase with respect to each other, and first and second oscillating circuits, respectively connected to an end of each transmission line, as recited in independent Claim 18, and its dependent claims, including Claims 24 and 25.

Further, Hill expressly teaches an oscillator and transmission system having an antenna. Id. at Fig. 2, 7 (elements 11 and 100 therein, respectively); c.4, ll. 10-62; c.8, l. 50-c.9, l. 39; Claims 1, 9 and 19 (last clause in each). Applicant respectfully asserts that, in expressly teaching an antenna, Hill teaches away from the embodiments recited in Claim 18 and its dependent claims, including Claims 24 and 25.

Hill does not teach all the elements recited in Claim 18 and its dependent claims, including Claims 24 and 25, and in fact expressly teaches away from such embodiments. Thus, Applicant respectfully asserts that the Hill reference neither teaches nor suggests such embodiments. Therefore, Applicant respectfully asserts that Claims 24 and 25 are allowable under 35 USC 103(a).

#### OBJECTIONS TO CLAIMS

As discussed above, Claims 18-23 and 27-33 are objected to as respectively dependent upon rejected base Claims 17 and 26.

Claims 18 and 27 are amended herein to read in independent form, in response to the Examiner's indications of allowability. Claims 17 and 26 are cancelled herein. As discussed above therefore, Applicant respectfully asserts that the objection to Claims 18-23 and 27-33, respectively dependent upon cancelled Claims 17 and 26, is moot.

## CONCLUSION

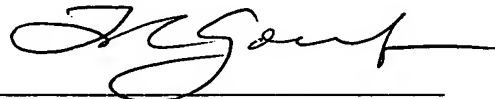
By the rationale stated above, Applicant respectfully asserts that the objection to Claims 18-23 and 27-33, and the rejection of Claims 17 and 26 under 35 USC 102(b), are moot. By the rationale stated above, Applicant also respectfully asserts that Claims 24 and 25 are allowable over the cited reference under 35 USC 103(a). Therefore, Applicant respectfully asserts that Claims 18-25 and 27-33 are allowable.

Accordingly, Applicant respectfully requests that the rejection of Claims 24 and 25 and the objection to Claims 18-23 and 27-33 be withdrawn and that Claims 18-25 and 27-33 be allowed.

Please charge our deposit account No. 23-0085, for any unpaid fees.

Respectfully submitted,

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